



State of West Virginia  
Department of Administration  
Purchasing Division  
2019 Washington Street East  
Post Office Box 50130  
Charleston, WV 25305-0130

## Request for Quotation

RFQ NUMBER

VET012166

PAGE

1

ADDRESS CORRESPONDENCE TO ATTENTION OF:

TARA LYLE  
304-558-2544

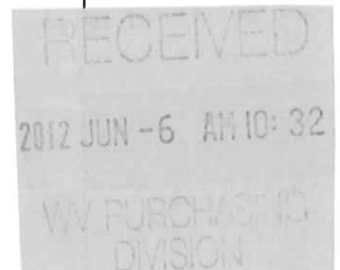
\*709054014 304-776-4406  
STATE EQUIPMENT INC  
PO BOX 3939

CHARLESTON WV 25339

DIVISION OF VETERANS AFFAIRS  
ATTENTION: C. PRATHER  
SUITE 101  
1321 PLAZA EAST  
CHARLESTON, WV  
25301-1400 558-3661

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS		
05/22/2012	NET 30	OUR TRUCK	DESTINATION	PREPAID		
BID OPENING DATE: 06/06/2012		BID OPENING TIME		01:30PM		
LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 1						
1. QUESTIONS AND ANSWERS ATTACHED.						
2. ADDENDUM ACKNOWLEDGEMENT IS ATTACHED. THIS DOCUMENT SHOULD BE SIGNED AND RETURNED WITH YOUR BID. FAILURE TO SIGN AND RETURN MAY RESULT IN DISQUALIFICATION OF YOUR BID.						
END OF ADDENDUM NO. 1						
0001	1	LS		020-33	\$75,121.00	\$75,121.00
MINI-TRACK & SKID-STEER LOADER & BACKHOE W/ATTACH (1) CASE 580N LOADER BACKHOE						
***** THIS IS THE END OF RFQ VET012166 ***** TOTAL:						\$75,121.00
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE		TELEPHONE		DATE		
		304-776-4405		6/5/2012		
TITLE		FEIN		ADDRESS CHANGES TO BE NOTED ABOVE		
GENERAL MANAGER		550658298				

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



## GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at [www.state.wv.us/admin/purchase/vrc/hipaa.html](http://www.state.wv.us/admin/purchase/vrc/hipaa.html) and is hereby made part of the agreement provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

### INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).

**VET012166**  
**Addendum No. 1**

Q1: Air Conditioning is not listed for the cab. Do they want A/C?

A1: No

Q2: Is this a Two Wheel Drive or Four Wheel Drive?

A2: Four wheel drive

Q3: Multi Brand Coupler. Is this for the Front Loader or the Backhoe?

A3: Front Loader

Q4: Is Loader or backhoe auxiliary hydraulics required to run attachments?

A4: Yes

The bid opening remains 06/06/2012 at 1:30 pm.

An authorized signature must be on the bid.

No additional questions will be accepted on this RFQ.

## EXHIBIT 10

REQUISITION NO.: .....

## ADDENDUM ACKNOWLEDGEMENT

I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED  
ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY  
PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.

ADDENDUM NO.'S:

NO. 1 .....

NO. 2 .....

NO. 3 .....

NO. 4 .....

NO. 5 .....

I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE  
ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS. VENDOR  
MUST CLEARLY UNDERSTAND THAT ANY VERBAL  
REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY  
ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES  
AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE  
INFORMATION ISSUED IN WRITING AND ADDED TO THE  
SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.



SIGNATURE

STATE EQUIPMENT, INC.  
.....  
COMPANY

6/5/2012  
.....  
DATE





State of West Virginia  
Department of Administration  
Purchasing Division  
2019 Washington Street East  
Post Office Box 50130  
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# Request for Quotation

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VET012166

PAGE  
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:

TARA LYLE  
304-558-2544

RFQ COPY

TYPE NAME/ADDRESS HERE

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DIVISION OF VETERANS AFFAIRS  
ATTENTION: C. PRATHER  
SUITE 101  
1321 PLAZA EAST  
CHARLESTON, WV  
25301-1400 558-3661

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS		
05/03/2012	NET 30	OUR TRUCK	DESTINATION	PREPAID		
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LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		020-33	\$75,121.00	\$75,121.00
MINI-TRACK & SKID-STEER LOADER & BACKHOE W/ATTACH (1)CASE 580N LOADER BACKHOE						
THE WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, WV DIVISION OF VETERANS ASSISTANCE, IS SOLICITING BIDS TO PROVIDE ONE (1) MINI-TRACK LOADER, (1) ONE SKID-STEER LOADER AND (1) ONE BACKHOE, ALL WITH ATTACHMENTS, FOR THE WV VETERANS CEMETERY LOCATED IN DUNBAR, WV, PER THE ATTACHED SPECIFICATIONS.						
INQUIRIES: WRITTEN QUESTIONS WILL BE ACCEPTED UNTIL CLOSE OF BUSINESS ON 05/21/2012. QUESTIONS MAY BE SENT VIA USPS, FAX, COURIER OR E-MAIL. IN ORDER TO ASSURE NO VENDOR RECEIVES AN UNFAIR ADVANTAGE, NO SUBSTANTIVE QUESTIONS WILL BE ANSWERED ORALLY. IF POSSIBLE, E-MAIL QUESTIONS ARE PREFERRED. ADDRESS INQUIRIES TO:						
TARA LYLE DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305  FAX: 304-558-4115 EMAIL: TARA.L.LYLE@WV.GOV						
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE		TELEPHONE		DATE		
		304-776-4405		6/5/2012		
TITLE		FEIN		ADDRESS CHANGES TO BE NOTED ABOVE		
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- I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

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Post Office Box 50130  
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# Request for Quotation

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VET012166

PAGE

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ADDRESS CORRESPONDENCE TO ATTENTION OF:

TARA LYLE  
304-558-2544

RFQ COPY

TYPE NAME/ADDRESS HERE

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DIVISION OF VETERANS AFFAIRS  
ATTENTION: C. PRATHER  
SUITE 101  
1321 PLAZA EAST  
CHARLESTON, WV  
25301-1400 558-3661

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS		
05/03/2012	NET 30	OUR TRUCK	DESTINATION	PREPAID		
BID OPENING DATE: 06/06/2012		BID OPENING TIME 01:30PM				
LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p> <p>THE MODEL/BRAND/SPECIFICATIONS NAMED HEREIN ESTABLISH THE ACCEPTABLE LEVEL OF QUALITY ONLY AND ARE NOT INTENDED TO REFLECT A PREFERENCE OR FAVOR ANY PARTICULAR BRAND OR VENDOR. VENDORS WHO ARE BIDDING ALTERNATES SHOULD SO STATE AND INCLUDE PERTINENT LITERATURE AND SPECIFICATIONS. FAILURE TO PROVIDE INFORMATION FOR ANY ALTERNATES MAY BE GROUNDS FOR REJECTION OF THE BID. THE STATE RESERVES THE RIGHT TO WAIVE MINOR IRREGULARITIES IN BIDS OR SPECIFICATIONS IN ACCORDANCE WITH SECTION 148-1-4 (F) OF THE WEST VIRGINIA LEGISLATIVE RULES AND REGULATIONS.</p> <p>ANY INDIVIDUAL SIGNING THIS BID IS CERTIFYING THAT: (1) HE OR SHE IS AUTHORIZED BY THE BIDDER TO EXECUTE THE BID OR ANY DOCUMENTS RELATED THERETO ON BEHALF OF THE BIDDER, (2) THAT HE OR SHE IS AUTHORIZED TO BIND THE BIDDER IN A CONTRACTUAL RELATIONSHIP, AND (3) THAT THE BIDDER HAS PROPERLY REGISTERED WITH ANY STATE AGENCIES THAT MAY REQUIRE REGISTRATION.</p> <p>VENDOR PREFERENCE CERTIFICATE</p> <p>THIS TEAM EXHIBIT HAS BEEN REPLACED BY THE ONLINE VERSION WHICH IS AVAILABLE HERE:</p>						
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE		TELEPHONE		DATE		
		304-776-4405		6-5-2012		
TITLE		FEIN		ADDRESS CHANGES TO BE NOTED ABOVE		
GENERAL MANAGER		550658298				

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia  
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ADDRESS CORRESPONDENCE TO ATTENTION OF
TARA LYLE 304-558-2544

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DIVISION OF VETERANS AFFAIRS  
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SUITE 101  
1321 PLAZA EAST  
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05/03/2012	NET 30	OUR TRUCK	DESTINATION	PREPAID
BID OPENING DATE: 06/06/2012		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
HTTP://WWW.STATE.WV.US/ADMIN/PURCHASE/VRC/VENPREF.PDF						
NOTICE						
A SIGNED BID MUST BE SUBMITTED TO:						
DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130						
THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:						
SEALED BID						
BUYER:-----TL/32-----						
RFQ. NO.:-----VET012166-----						
BID OPENING DATE:-----06/06/2012-----						
BID OPENING TIME:-----1:30 PM-----						
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:						
-----304-776-4409-----						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE 304-776-4405	DATE 6-5-2012
TITLE GENERAL MANAGER	FEIN 550658298	ADDRESS CHANGES TO BE NOTED ABOVE

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PAGE
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ADDRESS CORRESPONDENCE TO ATTENTION OF:
TARA LYLE 304-558-2544

RFQ COPY

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BID OPENING DATE: 06/06/2012		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
CONTACT PERSON (PLEASE PRINT CLEARLY):						
----- EDWARD M. ROWAN, JR. -----						
***** THIS IS THE END OF RFQ VET012166 ***** TOTAL:						\$75,121.00

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE 304-776-4405	DATE 6-5-2012
TITLE GENERAL MANAGER	FEIN 550658298	ADDRESS CHANGES TO BE NOTED ABOVE

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VET012166

The WV Department of Veteran's Assistance is soliciting bids for a mini-track loader with attachments, a skid-steer loader with attachments and a backhoe with attachments for the Donel Kinnard Memorial State Veterans Cemetery in Dunbar, WV.

The equipment must be manufactured for commercial use. All items must be new. Damaged or defective items must be replaced at no additional expense to the WV Department of Veterans Assistance.

If bidding "or equal" brands, Vendors should attach manufacturer's literature documenting that it meets the requirements stated in the specifications. If vendors are bidding equivalent products, product literature should be included with your bid.

All items are to be FOB Destination. Freight or delivery prices should be included in the bid price. Items to be delivered to the Donel Kinnard Memorial State Veterans Cemetery located at 130 Academy Drive Dunbar, WV 25064. Delivery should occur 30 days after the purchase order issued to the successful vendor.

The contract may be awarded to one or multiple vendors, depending what is in the best interest of the State, with the lowest bid meeting all of the specifications with the most complete bid. An authorized signature must be in the bid.

See additional specifications.



STATE OF WEST VIRGINIA  
**PURCHASE CONTINUATION SHEET**

Page \_\_\_ of \_\_\_ Pages

Requisition / P.O. No.:  
VET012106

File: \_\_\_\_\_

Acct. No.: \_\_\_\_\_

Vendor: \_\_\_\_\_ P.O. Date: \_\_\_\_\_

Spending Unit:  
Veterans Assistance

Item No.	Quantity	Description	Unit Price	Amount
1	1	<p>MINI-TRACK LOADER, Bobcat MT55, or equal</p> <p>ENGINE:</p> <p>3 cylinder, liquid cooled diesel, appx. 25 hp</p> <p>Must meet EPA Tier IV Emission Standards</p> <p>Spark arrestor muffler, dual element air cleaner and glow plug cold weather assist standard.</p> <p>Engine coolant shall include propylene glycol anti-freeze with freeze protection to -34 degrees</p> <p>12 volt battery with minimum of 530 cold-cranking amps</p> <p>40 amp alternator</p> <p>12 volt starter</p> <p>Glow plug starting aid</p> <p>WORKING RANGE:</p> <p>Angle of departure to be appx 23 degrees</p> <p>Ground clearance must be 4.5 inches</p> <p>Turning radius with standard bucket appx 55 inches</p> <p>Track tread width appx 7 inches</p> <p>Width over tracks appx 36 inches</p> <p>Width over bucket appx 36 inches</p> <p>PERFORMANCE:</p> <p>Rated operating capacity - SAE appx 550 lbs</p> <p>Tipping load - SAE rated appx 1700 lbs</p> <p>Forward speed appx 3.5 mph</p> <p>Reverse speed appx 1.5 mph</p> <p>Parking brake</p> <p>Reverse stop panel</p> <p>DRIVE SYSTEM:</p> <p>Fully hydrostatic rubber track drive</p> <p>Transmission shall be a direct drive of hydrostatic motor to main undercarriage drive sprocket</p> <p>HYDRAULIC SYSTEM:</p> <p>Pump Type - gear type capable of providing 12 gpm for bucket, lift arm and attachment operation.</p> <p>System pressure at the quick couplers shall be appx 2900 psi</p> <p>Standard auxiliary hydraulics. Shall include flush face style quick couplers.</p> <p>Standard continuous flow shutoff lever</p> <p>Control valve -three spool, open center, series parallel configuration. Includes lift (with float detent), tilt and front auxiliary hydraulic spools.</p> <p>Double-acting cylinders. Tilt cylinders shall have cushioning feature on dump.</p> <p>Standard hydraulic oil cooler</p> <p>Cylinders shall meet the following minimum specifications:</p> <p>Lift - 2 cylinders, bore diameter 2.25", rod diameter 1.25", stroke 14.16"</p> <p>Tilt - 1 cylinder, bore diameter 3", rod diameter 1.25", stroke 10.56"</p>		

STATE OF WEST VIRGINIA  
**PURCHASE CONTINUATION SHEET**

Page \_\_\_ of \_\_\_ Pages  
 File: \_\_\_\_\_ Acct. No.: \_\_\_\_\_

Requisition / P.O. No.:  
 VET012166

Vendor: \_\_\_\_\_ P.O. Date: \_\_\_\_\_

Spending Unit:  
 Veterans Assistance

Item No.	Quantity	Description	Unit Price	Amount
		<p><b>CONTROLS:</b>            Vehicle Steering - Direction and speed controlled by one multi-function handle            Hydraulic Functions - lift and tilt functions controlled by one hand lever. (Front auxiliary hydraulics (standard equipment) controlled by fore/aft movement of hand lever            Engine speed - controlled by hand lever throttle            Engine starting and shutdown functions shall be controlled electrically with the key switch.</p> <p>Fuel tank capacity 7 gal. minimum</p> <p><b>INSTRUMENTATION:</b>            Loader conditions shall be monitored by a combination of gauges and warning lights in the operator's line of sight that monitor the following functions:                Engine coolant temperature                Engine oil pressure                Hourmeter                Hydraulic Oil temperature                System voltage                Fuel level</p> <p>Must have easy access to all lift arm greasepoints            Rod end of the tilt cylinder shall have a replaceable bushing            Standard safety equipment</p> <p><b>Attachments:</b>            Standard ride on platform            Standard 36" bucket</p>		
2	1	<p>SKID-STEER LOADER, Bobcat Model S185, or equal  <b>ENGINE:</b>            Liquid cooled 4 cylinder engine            Emissions Tier (EPA) Interim Tier 4            Diesel engine            61 hp minimum</p> <p>Appx 24 gal fuel tank</p> <p><b>HYDRAULIC SYSTEM:</b>            System relief quick couplers, 330 psi            Auxiliary standard flow appx 16.9 gpm            Auxiliary high flow appx 26.4 gpm            Hydraulic oil cooler shall be standard equipment            Lift circuit port relief valve shall be standard equipment</p> <p><b>PERFORMANCE:</b>            Rated operating capacity 1850 lbs            Tipping load appx 4076 lbs            Travel speed appx 7.3 mph</p>		

STATE OF WEST VIRGINIA

## PURCHASE CONTINUATION SHEET

Page \_\_\_\_ of \_\_\_\_ Pages

Requisition / P.O. No.:  
VET012166

File: \_\_\_\_\_ Acct. No.: \_\_\_\_\_

Vendor: \_\_\_\_\_ P.O. Date: \_\_\_\_\_

Spending Unit:  
Veterans Assistance

Item No.	Quantity	Description	Unit Price	Amount
		Turning radius 78" minimum Wheelbase 40" minimum  Adjustable seat Back-up alarm BICS System Cab enclosure Cab heater Lift-arm support Seat belt Hydraulic Bucket Positioning Spark arrestor muffler Front and rear windshield wipers Dome light standard Front and rear operating lights Appx 24 gal fuel tank capacity  DRIVE SYSTEM: Shall have a fully hydrostatic four-wheel drive Transmission shall be infinitely variable tandem hydrostatic piston pumps, driving two fully reversing hydrostatic drive motors Hydrostatic piston pumps shall be belt driven and shall not require any adjustments Final drive chains shall be pre-stressed #80 HSOC endless roller chain (no master link) Two chains per each side of the loader with no idler sprocket and shall not require periodic adjustments Axle seals shall be protected by the wheel hub and shall never need greasing Parking brake shall be a positive engagement wedge and lobe Tires: 10-16.5, 8 PR, Standard duty tires  OPERATOR CONTROLS: Loader direction, steering and travel speed shall be controlled by two independent steering levers Loader lift and tilt functions shall be controlled by separate foot pedals Engine speed shall be controlled by a hand lever or foot pedal Parking brake shall be controlled by a finger operated rocker switch on control panel Engine starting and shutdown functions shall be controlled electrically with a key switch.  ATTACHMENTS: All attachments shall be mounted on a quick-change mechanism that allows for changes by experienced operator in two minutes. A single control unit shall be provided which will control all attachments		

STATE OF WEST VIRGINIA  
**PURCHASE CONTINUATION SHEET**

Vendor: \_\_\_\_\_ P.O. Date: \_\_\_\_\_

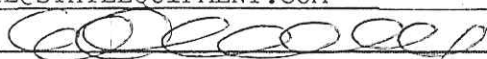
Page \_\_\_\_ of \_\_\_\_ Pages

Requisition / P.O. No.:  
 VET012166

File: \_\_\_\_\_ Accl. No.: \_\_\_\_\_

Spending Unit:  
 Veterans Assistance

Item No.	Quantity	Description	Unit Price	Amount
3	1	<p>ATTACHMENTS REQUESTED;</p> <p>Pallet fork</p> <p>Auger, 24"</p> <p>Auger, 36"</p> <p>Grapple, 55" with general purpose bucket</p> <p>Sweeper, 72" with gutter brush</p> <p>Brush saw, 28" diameter minimum</p> <p>Rotary Cutter, 72" standard flow</p> <p>Chipper</p> <p>9" feeder opening</p> <p>Reversible tool steel blades</p> <p>Discharge chute with adjustable deflector</p> <p>Snowblower</p> <p>72" minimum width</p> <p>14" minimum auger diameter</p> <p>270 degree chute rotation</p> <p>Hydraulic deflector control</p> <p>BACKHOE, John Deere Model 310J, or equal</p> <p>72 hp 4.5L diesel engine minimum</p> <p>Altitude compensating turbocharged engine</p> <p>MFWD &amp; Powershift 4-speed transmission</p> <p>19.5L-24" 10PR rear tires</p> <p>12-16.5" 8PR front tires</p> <p>Cab with dual doors</p> <p>Mechanical suspension fabric seat</p> <p>Single battery</p> <p>Extendible dipperstick w/5 function hydraulics and standard stabilizers</p> <p>W/cam lock reversible pads</p> <p>Loader with RTD W/2 function hydraulics</p> <p>1000 lb front counterweight</p> <p>Multi brand quick coupler</p> <p>Hydrostatic power and emergency steering</p> <p>Power assisted, hydraulic wet disc brakes, self-adjusting and self-equalizing</p> <p>Standard Backhoe controls</p> <p>Standard Loader controls</p> <p>Appx 41 gal fuel tank</p> <p>ATTACHMENTS:</p> <p>36" Bellhole &amp; Cemetery Bucket</p> <p>2 year warranty required</p> <p>Training video to be supplied for each piece of equipment</p>		

VET012166 - Mini-Track Loader, Skid-Steer, Backhoe - Bid Form				
Item #	Description	Estimated Quantity	Unit Price	Extended Amount
1	Mini-Track Loader, bobcat MT55, or equal	1		
	<i>Attachments per specifications for Mini-Track Loader</i>			
	Standard Ride on Platform for Mini-Track Loader or equal	1		
	Standard 36" Bucket for Mini-Track Loader or equal	1		
2	Skid-Steer Loader, Bobcat Model S185, or equal	1		
	<i>Attachments per specifications for Mini-Track Loader</i>			
	Pallet Fork or equal	1		
	Auger 24" or equal	1		
	Auger 36" or equal	1		
	Grapple 55" with general purpose bucket or equal	1		
	Sweeper 72" with gutter brush or equal	1		
	Brush saw 28" or equal	1		
	Rotary Cutter 72" standard flow or equal	1		
	Chipper 9" feeder opening - per the specifications	1		
	Snowblower per the specifications	1		
3	Backhoe, John Deere Model 310J, or equal	1	\$73,719.00	\$73,719.00
	<i>Attachments per specifications for Mini-Track Loader</i>			
	36" Bellhole and cemetery bucket or equal	1	\$1,402.00	\$1,402.00
	Failure to use this form may result in disqualification		GRAND TOTAL:	\$ 75,121.00
	Bidder / Vendor Information:			
	Name: STATE EQUIPMENT, INC.		NOTE: CASE TIER 4 TURBOCHARGED ENGINE	
	Address: P.O. BOX 3939		INCLUDED IN BID PRICE ALTITUDE	
	CHARLESTON, WV 25339		COMPENSATING NOT REQUIRED IN WEST VIRGINIA	
	Phone#: 304-776-4405		WORK ENVIRONMENT	
	Email Address: EDDIE@STATEEQUIPMENT.COM		DELIVERY APPROX. 60-90 DAYS ARO.	
	Authorized Signature: 			

RFQ No. VET 012166STATE OF WEST VIRGINIA  
Purchasing Division**PURCHASING AFFIDAVIT**

West Virginia Code §6A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

**DEFINITIONS:**

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

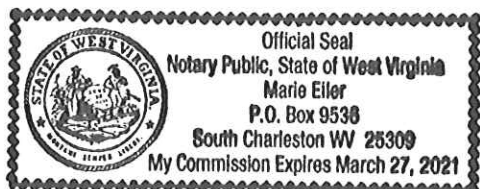
**EXCEPTION:** The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

**WITNESS THE FOLLOWING SIGNATURE**Vendor's Name: STATE EQUIPMENT, INC.Authorized Signature: [Signature] Date: 6-5-2012State of WEST VIRGINIACounty of Kanawha, to-wit:Taken, subscribed, and sworn to before me this 5<sup>th</sup> day of June, 2012My Commission expires March 27, 2021, 20  .

AFFIX SEAL HERE

NOTARY PUBLIC

[Signature: Marie Eller]



Rev. 09/08

## State of West Virginia

# VENDOR PREFERENCE CERTIFICATE

Certification and application\* is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-37. (Does not apply to construction contracts). *West Virginia Code*, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1. **Application is made for 2.5% resident vendor preference for the reason checked:**  
☐ Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,  
☐ Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,  
☐ Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
2. **Application is made for 2.5% resident vendor preference for the reason checked:**  
☐ Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3. **Application is made for 2.5% resident vendor preference for the reason checked:**  
☐ Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
4. **Application is made for 5% resident vendor preference for the reason checked:**  
☒ Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**  
☐ Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**  
☐ Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (*West Virginia Code*, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: STATE EQUIPMENT, INC

Signed: 

Date: 6-5-2012

Title: GENERAL MANAGER

\*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

**CASE**  
CONSTRUCTION

## **N SERIES LOADER BACKHOES**

580N | 580 Super N | 580 Super N Wide Track |  
590 Super N



**Case Delivers Full-Service Solutions**

**EQUIPMENT | FINANCING | PARTS & SERVICE**

# N SERIES LOADER BACKHOES

**580N | 580 Super N | 580 Super N Wide Track |  
590 Super N**

## Proven Performance

The new Case N Series loader/backhoes are four tough machines. Re-engineered from the ground up, the new Case loader/backhoes deliver industry-leading backhoe breakout force, increased loader lift capacity/reach and best-in-class cab visibility.

## Power Lift

N Series machines out-muscle the competition with as much as 65 percent greater backhoe lift power. With industry exclusive Power Lift, you may not need an excavator on the job. You also can use Power Lift to break through extreme conditions such as a frost line, dry clay or roots. With the flick of a switch, Power Lift adds more capacity than the competition to lift, curl, crane and move objects.

## Best-in-class Productivity

The N Series new loader arm design boosts productivity. The loader provides more breakout force and 36 percent greater lift capacity at full height. N Series machines reach deeper dig depths than the previous models. It's superior overall lift height and reach to dump material into the center of haul trucks with rail extensions eliminates the need to turn trucks away due to height restrictions.

## Superior Comfort and Visibility

Day and night, our new cab keeps operators productive. Floor-to-ceiling windows provide superior visibility. New rear-quarter windows provide easy communication to the back of the machine and improve cross-ventilation comfort. The high-intensity lighting package increases saturation by 28 percent, providing superior visibility and overlapping fields of coverage. The 'easy flex' side lights offer 45 degree rotation to deliver extra lighting where it's needed most.

## Powershift Transmission Family

The N Series introduces a new transmission family, the Powershift H-type and Powershift S-type, allowing operators to shift from the column. Each transmission provides a standard kick-down feature and introduces the industry exclusive SmartClutch modulation. SmartClutch lets operators customize the transition from forward to reverse to meet the demands of their specific application.

## Easy Maintenance

Case is famous for easy ground line daily maintenance. Swing-out coolers are easy to access. Axles, with outboard-mounted wet disc brakes, are serviceable without complete disassembly. Add a flip-up hood, hardened pins and floating bushings, spin-on filters, grouped site gauges, and you're saving routine maintenance time.



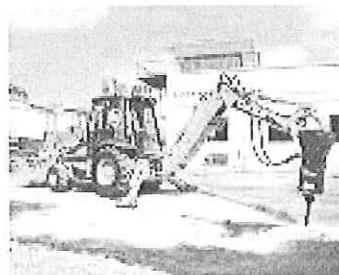




580N



580 Super N



580 Super N Wide Track



590 Super N



# N SERIES LOADER BACKHOES

**580N | 580 Super N | 580 Super N Wide Track |  
590 Super N**

## Stronger Everywhere

The new N Series loader/backhoe lineup from Case is *stronger everywhere*.

The machines offer dramatic increases in backhoe breakout force and lift, along with increased loader breakout force, lift and reach. They also provide substantially improved visibility and operator comfort.

The new Case 580N, 580 Super N, 580 Super N Wide Track and 590 Super N loader/backhoes all feature 4.5-liter, turbocharged engines, ranging from 79 net hp in the 580N to 108 hp in the 590SN.

The N Series extends a legacy of loader/backhoe leadership that began when Case introduced the industry's first factory-integrated loader/backhoe in 1957.

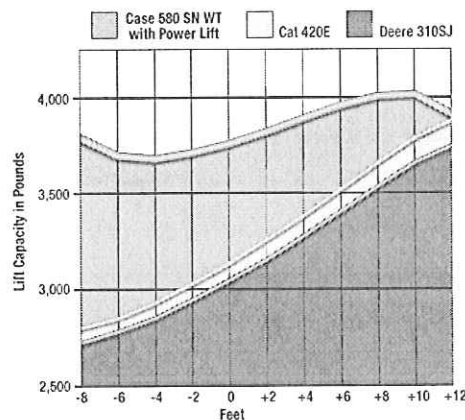
## Power Lift™ Boosts Backhoe Capacity

The N Series introduces Case-exclusive Power Lift™ technology, which channels hydraulic power directly to the boom with the touch of a button. As a result, N Series backhoe lifting capabilities outperform competitive models by as much as 39 percent – while running at low engine RPMs.

The increased backhoe strength takes N Series performance beyond previous models. A new fabricated boom design increases strength while maintaining the over-center design. Backhoe bucket pins are larger and stronger to accommodate the improved lift capacities and bucket rotation up to 198 degrees. All the while, the N Series continues its best-in-class maintainability with triple bushings and floating pins. New, optimized hose routings provide protection from severe duty tasks without compromising service capacity.

By providing lift capabilities comparable to an eight-ton excavator, with superior dig depths, the N Series loader/backhoes may eliminate the need to trailer an excavator to the jobsite.

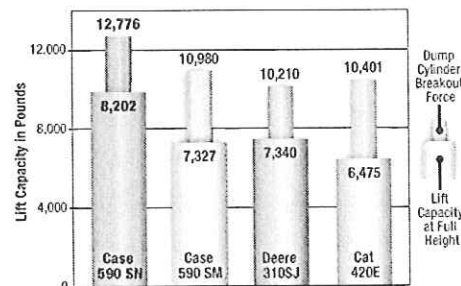
## Industry-leading backhoe boom lift



## Increased Loader Lift, Breakout, Reach

The Case N Series machines also deliver more power to the loader, for increased breakout and lift capabilities. The new loader arms with larger cylinder capacity are stronger and longer, providing greater loader reach while mechanical stops extend service life and reduce costs. Operators' will find dumping material into the center of a truck easier for faster loading and increased payloads. With the dual parallel linkage, the loader can balance oversized loads creating an even more versatile tool for the worksite.

## Superior loader lift and breakout force







### Side-Lighting Improves Safety, Productivity

Case adds to its leadership in product innovation with a new high-intensity lighting solution for its N Series loader/backhoes. The new lighting package improves illumination by 28 percent, providing superior visibility and overlapping field coverage. The new, "easy flex" side lights offer 45 degree rotation to deliver extra lighting where it's needed most.

The new N Series machines light up the entire perimeter of the machine. This means the entire side-to-side range of backhoe movement – and beyond – is illuminated. Additionally, the side lights can be focused to the loader side of the machine to maximize applications such as snow removal or grading. This not only gives the operator a better sense of control; it also boosts productivity at any time of day or night.

### Transmission, Hydraulic System Improvements

The Case N Series introduces a new transmission family, the Powershift S-Type™, Powershift H-Type™ and Powershuttle. All transmission choices are available on the 580SN, 580SN WT and 590SN. The 580N offers the Powershift S-Type and Powershuttle transmissions.

The two Powershift transmissions include four forward and three reverse gears, and the Powershuttle transmission offers four forward and four reverse gears. The Powershift transmission provides a standard kick-down feature and introduces the industry exclusive SmartClutch modulation. The SmartClutch feature lets operators customize the transition from forward to reverse to meet the demands of their specific loading applications.

A loader/backhoe's versatility includes the ability to drive to a jobsite. The Case machines can travel at up to 24 miles per hour – and the over-center backhoe design makes travel smoother.

The N Series machines deliver improved cycle times and realize a 10% fuel savings with the Variable Volume Hydraulic (VH) System. The VH System operates at a lower temperature than other hydraulic systems. The 580N continues to offer a single gear pump open hydraulic system.

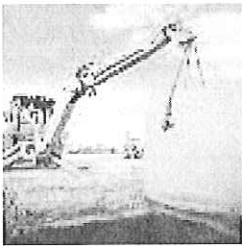
The new Flow Control feature with the auxiliary hydraulic system allows the operator to set the hydraulic flow to match the attachment needs. Additionally, hoses are routed inside of the boom structure of the backhoe to provide greater protection for applications such as demolition. These improvements in hydraulics also help achieve greater fuel efficiency.





# N SERIES LOADER BACKHOES

580N | 580 Super N | 580 Super N Wide Track |  
590 Super N



## Power Lift

Power Lift enables N Series loader/backhoes to lift and move objects that may otherwise require an excavator. Power Lift also lowers RPMs, giving the operator the ability to place objects with great precision while easily communicating with spotters.



## Stronger bucket pins

Backhoe bucket pins are larger and stronger to accommodate the improved lift capacities. Combining a single-pin design with an optional hydraulic coupler simplifies attaching and detaching the bucket.



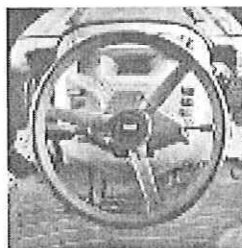
## Longer loader arms

The N Series machines have longer loader arms for deeper digging and better reach. This lets operators dump material into the center of a truck for faster loading and increased payloads. Thru-pin design strengthens geometry and rigidity to increase overall powerful design.



## High capacity hydraulic flow

The hydraulic system supplies 28 gallons per minute to the loader, with an available high-flow system that produces 40 gallons per minute. With standard flow control, a specific flow can be affected.



## Transmission options

The N Series offers the Powershift S-Type™, Powershift H-Type™ and Powershuttle transmission options. All are available on the 580SN, 580SN WT and 590SN. The 580N offers the Powershift S-Type and Powershuttle transmissions.





#### Openable rear windows

The N Series cabs feature a rear quarter window that opens 180 degrees and locks for excellent cross-ventilation and communication. The window includes a long grab-handle for easy opening and closing. The rear window is in three sections allowing for multiple positioning configurations for varying environmental conditions.



#### Optimized hose routings

The backhoe boom now has its hydraulic hoses routed within the structure protecting it during demolition and severe duty applications.



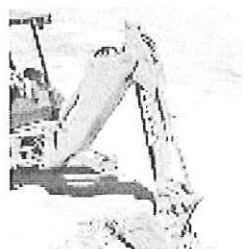
#### 4.5 liter turbocharged engine

All N Series machines use this proven Case engine that features a parent metal bore block with an integral oil cooler and automatic belt tensioner. These features add up to longer engine life, greater reliability and easier serviceability.



#### Ground level maintenance

The N Series loader/backhoes offer Case hallmark ground-level maintenance, including grouped service points and sight gauges for easy daily monitoring.



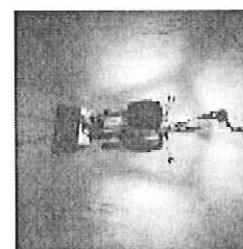
#### S boom design

The new backhoe boom adds to the N Series machines' strength and durability. It stands up to the most grueling applications and working conditions, such as demolition.



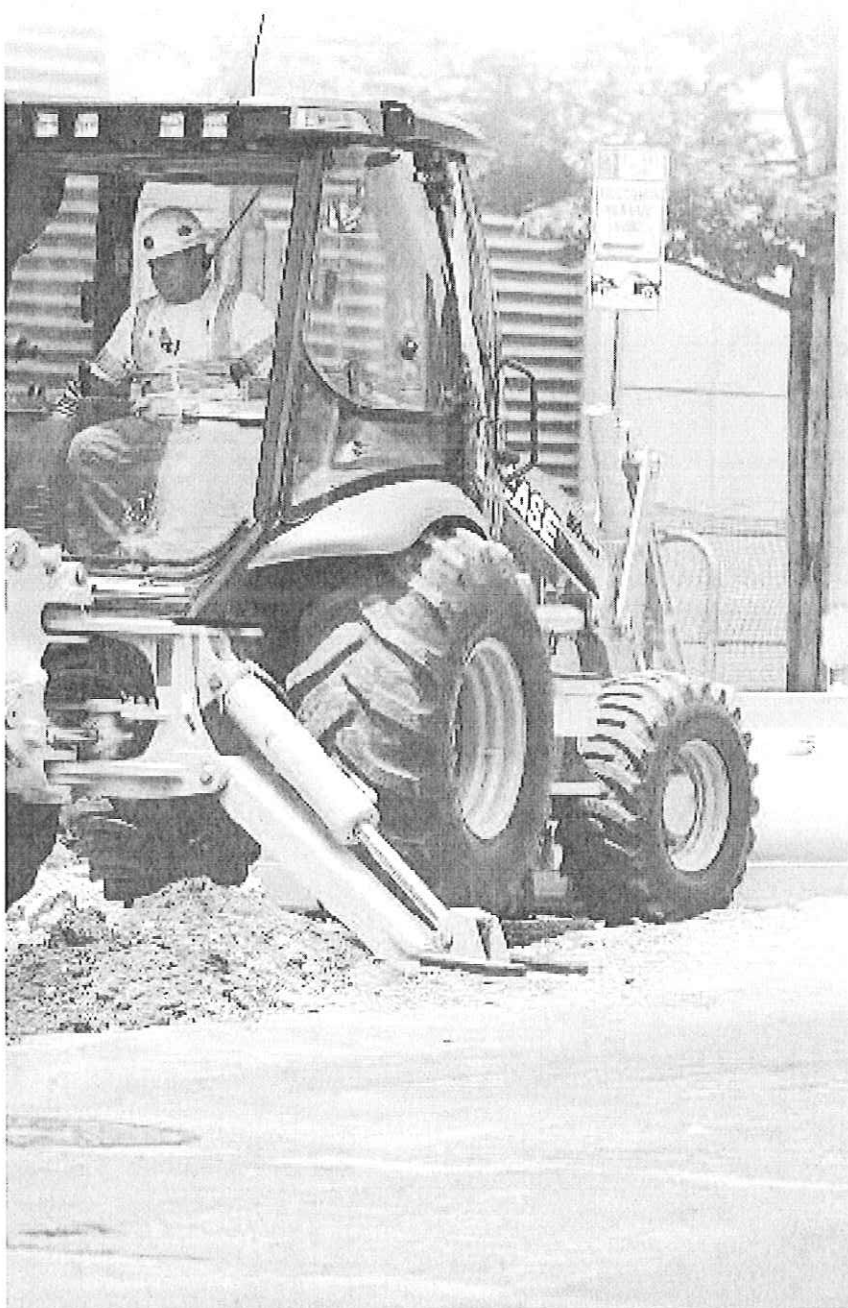
#### Easy-open door handle

Opening the cab door has never been easier, thanks to a new easy-to-open door handle design for all N Series models.



#### 360-degree exterior lighting

The N Series machines all feature high-intensity exterior lighting, including industry exclusive, adjustable side lighting that combines with front and back lighting to provide full 360-degree lighting of the jobsite, greatly improving safety and nighttime productivity.





# N SERIES LOADER BACKHOES

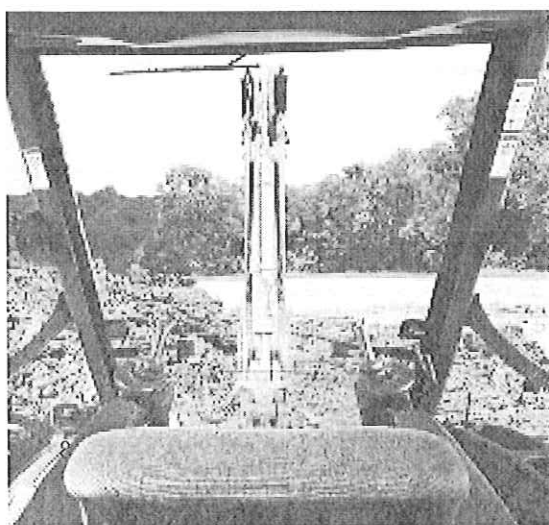
580N | 580 Super N | 580 Super N Wide Track |  
590 Super N

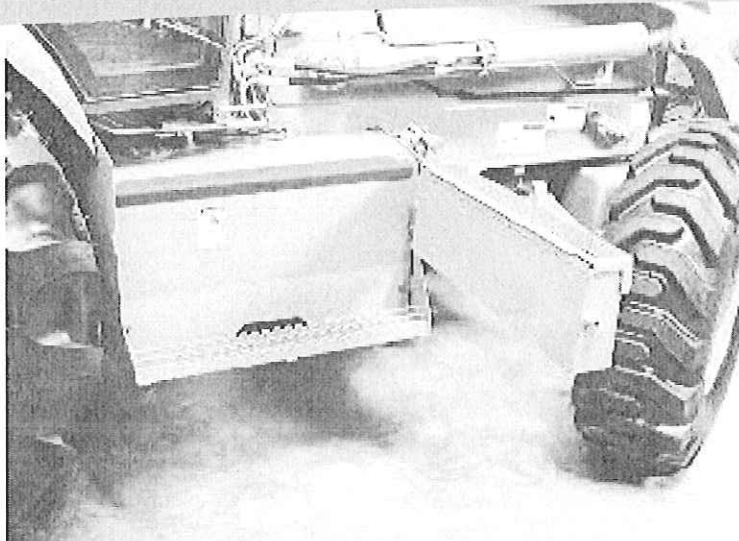
## New Cab Improves Visibility, Airflow, Comfort and Control

Several new comfort and safety features in the N Series loader/backhoes boost operator productivity. Floor-to-ceiling windows provide superior visibility. New rear-quarter windows provide easy communication to the back of the machine and improve cross-ventilation comfort.

As in previous models, the N Series loader/backhoes include comfortable, adjustable operator seats and ergonomically placed controls along with all-season heating and air conditioning systems for increased operator comfort. The N Series cabs are also among the industry's quietest – at 72 decibels – providing an environment in which the operator can concentrate on the task at hand.

With fully adjustable control columns, armrests and wrist positioners, as well as a footrest, any operator will feel completely in control and relaxed while using the Case pilot control system. With additional machine control features such as PRO CONTROL (swing dampening), Ride-Control (load balancing) or Comfort Steer (reduces lock to lock steering wheel rotation), productivity is second nature in any N Series tractor loader backhoes.





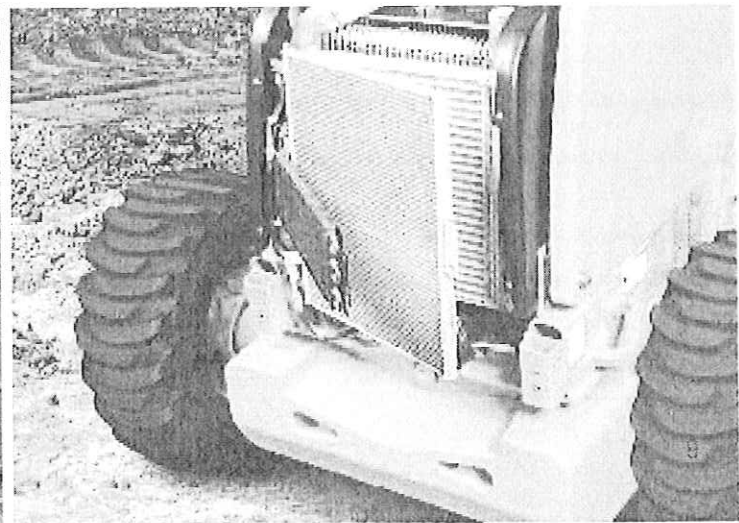
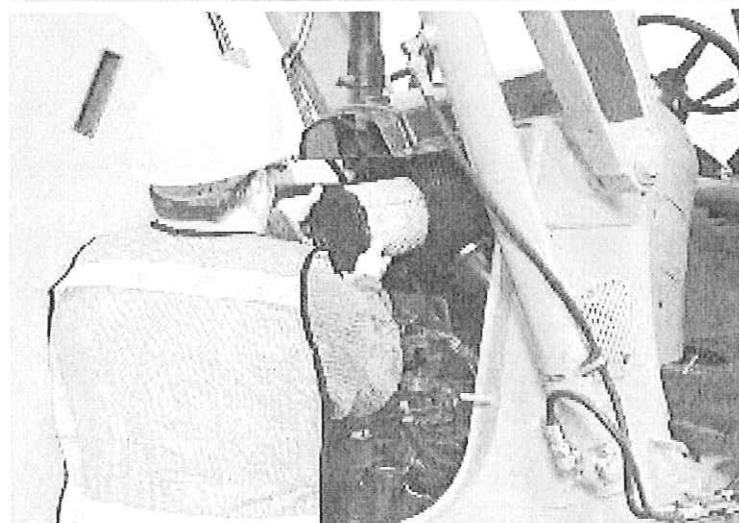
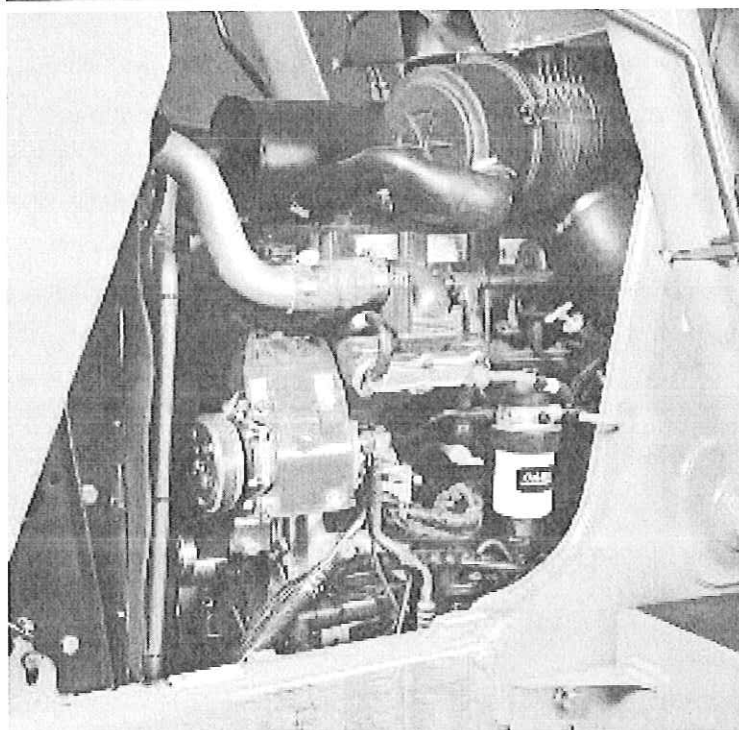
### Easy Maintenance and Service

Case knows that the easier it is to perform routine maintenance, the more likely it will get done. A hallmark of Case equipment design is easy ground line access to daily maintenance checkpoints.

The N Series machines offer swing-out coolers that are easy to access. You can service the machine's axles – equipped with outboard-mounted wet disc brakes – without complete disassembly. The flip-up hood, spin-on filters and grouped site gauges all help reduce routine maintenance time.

Case also has added components that eliminate the need for service, including an automatic belt tensioner, lube-for-life u-joints and hardened steel triple-bushed joints.

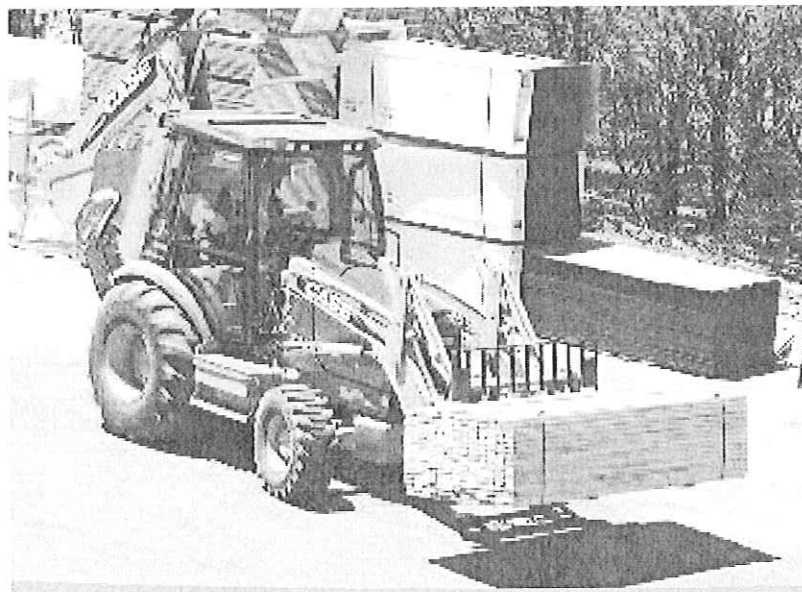
Add up all the maintenance and service advantages of the Case N Series, and you get a loader/backhoe that will be productive on the jobsite for years to come.





# N SERIES LOADER BACKHOES

580N | 580 Super N | 580 Super N Wide Track |  
590 Super N



## Increase Productivity With Attachments

Case wrote the book on attachment versatility. In fact, we were the first manufacturer to offer a hydraulic quick coupler on our loader. We're the only manufacturer to offer an integrated hydraulic quick coupler on our backhoe, and we have engineered that quick coupler so there is no loss of breakout force.

Hydraulic quick couplers let the operator exchange buckets and many attachments without ever leaving the cab. This means you can change buckets with ease or switch from a bucket to forks or other attachment and back again in seconds.

Popular attachments include hydraulic augers, hammers and tampers for the backhoe, and forks, grapples, rakes, brooms, snow blades and combination buckets for the loader. In all, more than two dozen loader attachments are available for Case N Series loader/backhoes.



## You can count on Case

You can count on Case and your Case dealer for full-service solutions—productive equipment, expert advice, flexible financing, genuine Case parts and fast service. We're here to provide you with the ultimate ownership experience.

### Case pride

You can take pride in the Case name on your machine. It's backed by more than a century of productivity and performance. Case and your Case dealer are here for you, not only when you buy the machine, but also after you put 1,000 or 10,000 hours on it.

### A rich, proud history

Case Construction Equipment's heritage spans more than 165 years. Growing from J.I. Case's innovations with steam-powered machinery in the late 1800s, Case developed road-building equipment that helped create early 20th century streets and highways across the world. By 1912, Case was well on its way to establishing itself as a full-line equipment manufacturer. The company continued to expand its construction equipment business over the next 45 years.

### Celebrating a tradition of innovation

In 1957, Case produced the world's first factory integrated loader/backhoe made and warranted by one manufacturer. Over the decades and into the 21st century, Case has continued to develop a long line of industry firsts and has taken a leadership role in pioneering new products and solutions. Today, Case produces 15 lines of equipment and more than 90 models to meet your toughest construction challenges. Supported by manufacturing and sales in more than 150 countries, Case serves the needs of our customers worldwide.

The Case loader/backhoe history has included a number of important "firsts" — such as the Case-patented Extendahoe extendible dipper stick, return-to-dig and return-to-travel functionality, Ride Control™, side lighting and the Case trademark over-center boom design — that evolved the loader/backhoe into an indispensably versatile fixture in the construction equipment industry.

### Coast-to-coast customer support

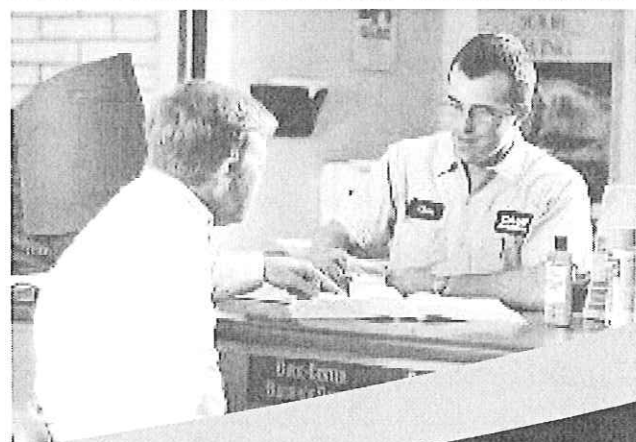
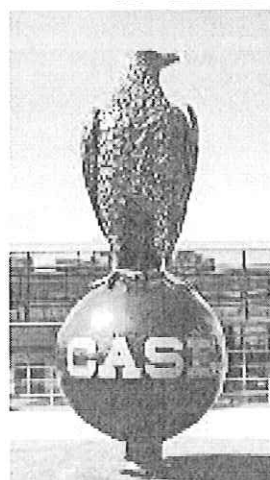
In North America, Case equipment is sold and serviced by more than 350 dealer locations. No matter where you work, we're here to support and protect your investment.

To locate a Case dealer or learn more about Case equipment or customer service, go to [www.casece.com](http://www.casece.com) or call 1-866-54CASE6. For flexible financing options, dependable parts and fast service, your Case dealer is here to meet your needs.

It all adds up. You can count on Case.

## Case Delivers Full-Service Solutions

EQUIPMENT | FINANCING | PARTS & SERVICE



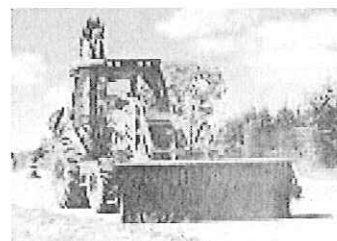
# N SERIES LOADER BACKHOES

580	N	Super N	Super N WT
Engine (Net)	79 hp (59 kW)	92 hp (68 kW)	92 hp (68 kW)
Backhoe dig depth	14 ft 9.3 in (4.5 m)	14 ft 5.6 in (4.41 m)	14 ft 6.4 in (4.43 m)
Backhoe bucket force	11,333 lbf (50 412 N)	14,223 lbf (63 267 N)	14,831 lbf (65 972 N)
Loader	6,803 lb (3086 kg)	7,044 lb (3195 kg)	8,425 lb (3821 kg)
Operating weight	14,564 lb (6607 kg)	16,239 lb (7366 kg)	19,985 lb (9065 kg)
Biodiesel compatibility			

590	Super N
Engine (Net)	108 hp (81 kW)
Backhoe dig depth	15 ft 5.8 in (4.72 m)
Backhoe bucket force	14,940 lbf (66 455 N)
Loader	8,202 lb (3721 kg)
Operating weight	20,458 lb (9280 kg)
Biodiesel compatibility	



**580N**



**580 Super N**



**580 Super N WT**



**590 Super N**



Case construction equipment is biodiesel friendly.

Always read the Operator's Manual before operating any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs and use any safety features provided.

NOTE: All engines meet current EPA emission regulations.

NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

IMPORTANT: Case Construction Equipment Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Availability of some models and equipment builds vary according to the country in which the equipment is used. The illustrations and text may include optional equipment and accessories and may not include all standard equipment. Your Case dealer/distributor will be able to give you details of the products and their specifications available in your area.

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Looking for product specs, customer testimonials, competitive comparisons, finance offers and more?  
Visit us at [www.casece.com](http://www.casece.com) or call 866-54CASE6





580N LOADER BACKHOE  
US PRICE LIST

(Ex Works Burlington, IA)  
**Standard Equipment**

ENGINE:

Case 434T/E 4-Cyl. diesel  
(Turbocharged)  
207 CID  
Tier 4A emissions certified  
Electronic Fuel Injection  
Cooled EGR  
Horsepower, turbocharged:  
- Gross 85  
- Net 83 with viscous fan  
- Net 78 with 39 degree fan  
Air cleaner aspirated dual element-dry  
type, radial seal  
Diesel Particulate Filter-Spark Arresting  
Anti-freeze (protect to -34°F)  
Fuel Tank: 42 gal. (US)  
Coolant deaeration bottle  
Throttles, hand & suspended foot  
Serpentine belt with automatic  
tensioner  
Glow Plugs cold start

POWER TRAIN:

4F-4R power shuttle (synchromesh)  
Rear drive axle - outboard planetary  
Torque converter

OPERATOR'S PROTECTIVE

STRUCTURE:

ROPS/FOPS canopy, Isolation mounted  
Anti vandalism cover for instruments  
(canopy)  
Coat hook with tether strap  
Left side fender storage compartment  
with beverage holder  
Left side console storage  
compartment with thermos/fire  
extinguisher holder  
Interior rear view mirror  
Seat, non-suspension, 180° swivel  
Seat belt, 2" retractable

INSTRUMENTATION:

Gauges (backlit):

Converter oil temperature  
Engine coolant temperature  
Fuel level  
Tachometer/hourmeter  
Voltmeter

Warning Lights:

A/C system pressure  
Air cleaner restriction  
Alternator  
Cold Start  
Master Warning  
Master Start  
Engine oil pressure  
Hydraulic filter bypass  
Low fuel level  
Parking Brake  
Brake temperature system

Audible warning alarm for:

Coolant temperature  
Engine oil pressure/temp  
Parking brake engagement  
Shuttle engagement with seat in  
backhoe position

ELECTRICAL:

12 Volt system  
Battery, 850 cold cranking amps  
Alternator: 120 AMP  
Dual power plug recepticals (30 AMP)  
Key start

Lights:

Canopy: 2 headlights (halogen)  
+ 2 rear flood + 2 side lights  
2 rear tail/stop  
2 front flashers/turn  
2 rear flashers/turn  
Cab: 4 headlights (halogen)  
+ 4 rear flood + 2 side lights  
2 rear tail/stop  
2 front flashers/turn  
2 rear flashers/turn



**580N LOADER BACKHOE  
US PRICE LIST**

**(Ex Works Burlington, IA)  
Standard Equipment**

**ELECTRICAL (Cont'd):**

Automotive turn signal switch with  
horn and driving lights  
Neutral start system

**HYDRAULICS:**

28.5 GPM gear pump  
Heavy duty hydraulic oil cooler  
Oil filter, spin-on, 7 micron  
Pilot operated check valves for boom  
Pro Control System™

**LOADER:**

Bucket position indicator  
Electric clutch cut-out  
Lifting lugs on standard bucket  
Single lever control with self-leveling  
and return to dig  
Loader boom service lock

**BACKHOE - INTEGRAL:**

Digging depth  
Choice of 14' 9" standard backhoe or  
14' 9" - 18' 3" Extendahoe™  
Foot swing manual control  
Backhoe bucket links

**OTHER STANDARD FEATURES:**

Backup alarm  
Brakes: Hydraulic Power Assisted wet  
multi disc, self adjusting, self fill,  
outboard mounted  
Electro-hydraulic differential lock  
Front & rear tie downs  
Horn (front & rear switches)  
Hydrostatic steering  
Parking brake, spring applied-  
hydraulically released with electric  
switch control  
Replaceable molded front bumpers  
Stalk type turn signal switch with  
integral horn and drive light control  
Tilt engine hood with multi position  
loader  
Vertical spin on engine, fuel and  
hydraulic filters

**NOTE:**

To order a Special Feature select  
option 423100 - Special Feature  
AND contact Special Feature  
Coordinator:  
Tracy Gach  
Phone: (319) 754-3612  
Fax: (319) 754-3105  
E-mail: [tracy.gach@cnh.com](mailto:tracy.gach@cnh.com)

## ENGINE

Model	Case F5C Diesel, Tier 4 Interim Emissions Certified
Type	4-stroke, turbocharged
Cylinders	4
Bore/Stroke	3.9 in x 4.33 in (99 x 110 mm)
Displacement	207 in <sup>3</sup> (3.4 L)
Fuel injection	Direct high pressure common rail
Fuel	Diesel
Fuel filter	w/water trap
Air intake	Cross-flow
Cooling	Liquid
Engine speeds* (rpm)	
Rated speed, full load	2200
Low idle	875 - 1025
High idle, no load	2300 - 2450
Horsepower	
Gross	85 (63 kW) @ 2200 rpm
Net w/viscous fan*	83 (62 kW) @ 2200 rpm
Net	78 (59 kW) @ 2200 rpm

Maximum torque @ 1400 rpm	
Gross	276 lb-ft (374 N-m)
Net w/viscous fan	274 lb-ft (372 N-m)
Net	268 lb-ft (364 N-m)

Torque rise at rated speed 36%

NOTE: Meets federal emission regulations.

\* Viscous fan included with Cab Convenience package.

## ENGINE COOLING

Radiator	
Core type	Square wave
Core size area	486 in <sup>2</sup> (3145 cm <sup>2</sup> )
Rows of tubes	4
39 Degree Fan	
Style	7 blade suction
Diameter	19.65 in (499 mm)
Ratio	1.1:1
Water pump	
Style	Integral
Engine oil	
Pump	Deep sump plate cooler with pressurized under-piston nozzles
Pump operating angle ratings	
Side-to-side	Rated 35°
Fore and aft	Rated 35°
Oil filtration	Replaceable, full-flow spin-on

## TIRES

Front	
2WD - 11L x 16, 10-ply rating	
4WD - 12 x 16.5, 8-ply rating	
Rear	
2/4WD - 19.5L x 24, 10-ply rating	
2/4WD - 17.5L x 24, 10-ply rating	
2/4WD - 16.9L x 28, 10-ply rating	

## POWERTRAIN

Transmission - standard		
4F-4R Power Shuttle Synchronesh		
Transmission manual gear shift fully synchronized		
Transmission – optional		
Powershift S-Type, 4F-3R fully synchronized		
Specifications below apply to both Power Shuttle and Powershift S-Type transmission unless otherwise indicated.		
Gear ratios	Forward	Reverse
1st	5.603	4.643
2nd	3.481	2.884
3rd	1.584	1.313
4th	0.793	0.657*
*4R not available on Powershift S-Type		

\*4R not available on Powershift S-Type

Travel speeds – mph (km/h)				
	1st	2nd	3rd	4th
Forward	3.8 (6.1)	6.1 (9.8)	12.9 (20.8)	24.3 (39.1)
Reverse	4.5 (7.3)	7.3 (11.7)	15.5 (24.9)	29.1* (46.9)

NOTE: Travel speeds at 2293 engine rpm with 19.5 x 24 tires. Speeds decrease with 17.5L x 24 rear tires. 4R not available on Powershift S-Type

Torque converter	
Ratio	3.2
Differential lock	On-the-go push-button activation
Front 4WD / Rear axle	
Differential ratio	2.0 / 2.5
Planetary hub ratio	6.0 / 6.4
Total reduction ratio	12.0 / 16.0

Service brakes	
Individually applied, power assisted, hydraulically actuated, maintenance-free, self-adjusting, outboard mounted, wet disc, 2 per side	
Disc area	384 in <sup>2</sup> (.25 m <sup>2</sup> )

Parking brakes	
Trans Mounted spring applied hydraulic release (SAHR)	

## ELECTRICAL

Voltage	12 volts, negative ground
Alternator	120 amp
Battery	850 cold-cranking amps
Optional batteries	(2) 850 cold-cranking amps
Power plugs	(2) 30 amps total

## HYDRAULICS

Pump	
Parker P330 Single Section Gear Pump	
Standard main relief pressure	
	3350 +/- 50 psi @ 28.5 gpm (231 +/- 3.5 bar @ 108 L/min)
Filtration	
7-micron, return line, full flow, spin-on element., condition indicator light for filter	
Oil cooler	Heavy-duty
Loader flow @ rated engine rpm	
	28.5 gpm @ 3000 psi (108L/min @ 207 bar)

## Loader control valve

Two or three spool open center monoblock valve. Two & three spool valves have a single lever manual control for lift and tilt functions. Three spool valve uses a proportional Electro-Hydraulic control for the auxiliary function. The lift lever has a positive hold "Float" position and a "return-to-dig" feature. System Main Relief valve is single stage with Manual Backhoe Controls, dual stage relief valve with Pilot Backhoe Controls.

Loader auxiliary hydraulics proportional thumb switch w/detent on loader control handle. Loader auxiliary hydraulics with full available flow. 0 - 28.5 gpm (0 - 108 L/min)

Backhoe flow @ rated engine rpm  
28.5 gpm @ 3000 psi (108L/min @ 207 bar)

## Manual Backhoe Control Valve

Six or Seven spool monoblock Open Center control valve. Features "Pro-Control" which includes custom designed spools for each individual function along with "swing cushioning" valve for zero-wag swing control. Basic control valve has an open center parallel circuit for all functions.

## Pilot Backhoe Control Valve

Six, seven, or eight-spool sectional Closed Center control valve. Features "Pro-Control" which includes custom designed spools for each individual function along with "swing cushioning" valve for zero-wag swing control. Basic control valve is closed center, with circuits in parallel with a post-compensated, flow sharing feature for simultaneous operation of all circuits.

## Unidirectional Auxiliary Hydraulics

Unidirectional hydraulic valve is equipped with an adjustable LS relief valve to control attachment pressure and a 6 position flow control selector for 6 detented, distinct flow settings.

Actuation:  
Manual backhoe controls - Cab floor pedal  
Pilot controls - Left hand joystick

## OPERATOR ENVIRONMENT

ROPS/FOPS certified protective canopy
Anti-vandalism cover for dash (with canopy only)
Rear fenders extensions
Coat hook w/garment strap
Interior rear view mirror, convex 90 mm wide x 275 mm high
Non suspension seat - 180° swivel - Vinyl
Retractable seat belt, 50 mm (2 in)
Cup holder/storage tray mounted on left-hand fender
Right-hand storage compartment w/lid

## INSTRUMENTATION

Gauges
Engine water temperature
Converter oil temperature
Fuel level
Tachometer/hourmeter
Voltmeter
Warning lights
Air cleaner restriction
Alternator
A/C high pressure
Cold start
Engine oil pressure low
Hydraulic oil filter bypass
Parking brake engagement
Low fuel
Audible alarms
Coolant temperature
Engine oil pressure
Parking brake engagement
Shuttle engagement/ seat position
Backup
Horn - dual switched front and rear

## TURNING RADIUS

2WD	
Brakes on	10 ft 7.6 in (3.24 m)
Brakes off	12 ft 4.0 in (3.79 m)
4WD - engaged	
Brakes on	11 ft 3.8 in (3.45 m)
Brakes off	13 ft 9.7 in (4.21 m)
4WD - disengaged	
Brakes on	11 ft 0.3 in (3.36 m)
Brakes off	12 ft 2.5 in (3.72 m)

NOTE: Turning radius dimensions curb to curb w/17.5L x 24 rear tires and 4 in 1 bucket.

## OPERATING WEIGHTS

### Configuration 1 - SAE Transport

Standard dipper, 82 in (2.08 m) LL bucket, 2WD, 17.5L x 24 rear tires, 24" Trenching bucket, standard cast stabilizer pads, ROPS canopy, vinyl-suspension seat, dual battery, no operator, fully fueled TBD

### Configuration 2 - SAE Transport

Extendahoe dipper, 82 in (2.08 m) bucket, 4WD, 19.5L x 24 rear tires, 24 HD bucket, flip stabilizer pads, ROPS cab, cloth, air suspension seat, dual battery, no operator, backhoe mechanical quick coupler, 1100 lb counterweight and 40 gallon plastic fuel tank. Center of gravity is from the rear axle center TBD

### Add-on weights

Buckets	
4 in 1 bucket	+1,451 lb (658 kg)
82 in (2082 mm) General Purpose	+683 lb (310 kg)
93 in (2362 mm) General Purpose	+1,188 lb (539 kg)
24 in (610 mm) Heavy-Duty Universal	+427 lb (193.5 kg)
Cab (over canopy)	+0 lb (0 kg)
Fabricated Stabilizer pads	+141 lb (64 kg)
Counterweights	+700 lb (318 kg)
Extendahoe®	+285 lb (129 kg)
4WD w/driveshaft guard	+283 lb (128 kg)

## SERVICE CAPACITIES

Fuel tank	42 gal (159L)
Hydraulic system	
Total	112 qt (106 L)
w/Extendahoe®	118 qt (111.7 L)
Reservoir w/filter	58 qt (55 L)
Reservoir w/o filter	56 qt (53 L)
Transmission - Total System	
2WD Standard	18 qt (17 L)
2WD Powershift	23 qt (21.7 L)
4WD Standard	21 qt (19.4 L)
4WD Powershift	22 qt (20.7 L)
4WD Front axle	
Differential	8.1 qt (7.7 L)
Planetaries (each)	0.5 qt (0.5 L)
Rear axle	
Differential & Planetaries	14.4 qt (13.6 L)
Engine oil w/filter	14.4 qt (13.6 L)
Cooling system	
w/heater	17.8 qt (16.8 L)
w/o heater	17.0 qt (16.1 L)
Window washer reservoir	3.0 qt (2.8 L)

## LOADER

Bucket Position Indicator
Lifting Lugs on Standard Bucket
Single Lever Control with Self-Leveling and Return-to-Dig
Hand Operated Clutch Disconnects on Loader and Shift Levers
Single Lever 4 Function Loader Control: Lift, Dump, Clutch Cut-out, Differential Lock

### Loader Bucket Sizes

Width	Weight	Struck	Heaped
Long Lip Bucket w/o bolt on edge			
82 in (2.08 m)	683 lb (310 kg)	0.87 yd³ (0.67 m³)	1.03 yd³ (0.79 m³)
93 in (2.36 m)	1,188 lb* (539 kg)	1.07 yd³ (0.82 m³)	1.25 yd³ (0.96 m³)
4in1 Bucket w/ bolt on edge			
82 in (2.08 m)	1,451 lb* (658 kg)	0.85 yd³ (0.65 m³)	1.04 yd³ (0.80 m³)

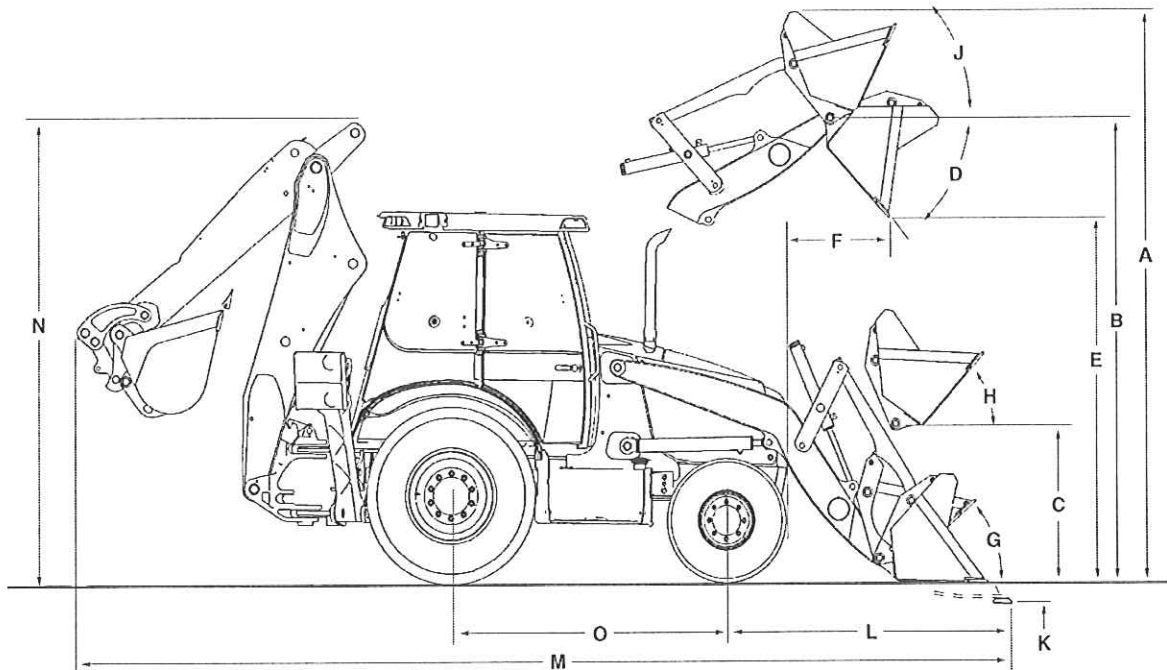
NOTE: \*Weight of 4 in 1 bucket includes edges, cylinders, and tubelines.

## BACKHOE

Over center design, Fabricated "S" boom
Open-center hydraulics - Pro Control System
15,700 lb-ft (21 297 N-m) swing torque
198° bucket rotation
Foot-swing w/3 lever control
Wing stabilizers w/cleated dirt pad

### Backhoe Bucket Sizes

Width	Weight	Heaped
General Purpose Trenching Buckets		
18 in (457 mm)	231.5 lb (105 kg)	4.7 ft³ (0.13 m³)
24 in (610 mm)	272 lb (123.4 kg)	6.26 ft³ (0.18 m³)
Universal Buckets		
12 in (305 mm)	294.5 lb (133.6 kg)	3.40 ft³ (0.10 m³)
18 in (457 mm)	356.3 lb (161.6 kg)	5.30 ft³ (0.15 m³)
24 in (610 mm)	426.6 lb (193.5 kg)	7.70 ft³ (0.22 m³)
30 in (762 mm)	489.4 lb (222 kg)	10.2 ft³ (0.29 m³)
36 in (914 mm)	552.3 lb (250.5 kg)	12.7 ft³ (0.36 m³)
High Capacity Buckets		
24 in (610 mm)	446.7 lb (202.6 kg)	8.50 ft³ (0.24 m³)



### LOADER DIMENSIONS\*

	Long Lip Bucket	4 IN 1 <sup>st</sup> Bucket
A. Overall operating height – fully raised	13 ft 8.7 in (4.18 m)	13 ft 7.8 in (4.16 m)
Height to –		
B. Bucket hinge pin fully raised	11 ft 2.5 in (3.42 m)	11 ft 2.5 in (3.42 m)
C. Bucket hinge pin @ SAE carry	1 ft 1.6 in (345 mm)	1 ft 1.6 in (345 mm)
D. Dump angle @ full height	47°	47°
E. Dump clearance @ full height, 45° dump –		
Bucket	8 ft 9.9 in (2.69 m)	8 ft 10.9 in (2.71 m)
Clam open	NA	9 ft 8.3 in (2.96 m)
F. Dump reach @ full height, 45° dump –		
Bucket	2 ft 7.5 in (801 mm)	2 ft 5.1 in (738 mm)
Clam open	NA	1 ft 3.3 in (388 mm)
Bucket rollback –		
G. @ groundline	42°	42°
H. @ SAE carry	42°	42°
J. @ full height	Adjustable	Adjustable
K. Digging depth below grade –		
Bucket flat	6.1 in (155 mm)	4.8 in (122 mm)
Clam open (dozing)	NA	4.1 in (103 mm)
L. Reach from front axle centerline – bucket on ground	6 ft 0.8 in (2.08 m)	6 ft 0.7 in (2.03 m)
Lift capacity to full height	6,803 lb (3086 kg)	6,454 lb (2930 kg)
Breakout force –		
Lift cylinders	9,506 lbf (3086 daN)	9,276 lbf (4207 daN)
Dump cylinders	10,622 lbf (4818 daN)	11,312 lbf (5131 daN)
Bucket cutting edge width	82.5 in (2.09 m)	82 in (2.08 m)
Maximum grading angle	114°	114°
Maximum clam opening	NA	38.3 in (972 mm)
Moldboard height	NA	36.8 in (934 mm)
Raising time to full height	4.6 sec	4.6 sec
Bucket dumping time	1.1 sec	1.1 sec
Lowering time –		
Power down	2.6 sec	2.6 sec
Return-to-dig	3.6 sec	3.6 sec
Clam –		
Open time	NA	1.0 sec
Close time	NA	1.0 sec

NOTE: Loader dimensions taken with 4WD, 19.5L x 24 rear tires.



## DIMENSIONS

	2WD w/19.5L x 24 tires	4WD w/19.5L x 24 tires
<b>M. Overall transport length –</b>		
Long Lip bucket w/Quick Coupler	23 ft 5 in (7.14 m)	23 ft 3.6 in (7.10 m)
4in1® bucket w/Quick Coupler	23 ft 2.5 in (7.07 m)	23 ft 1.3 in (7.04 m)
Long Lip bucket w/Straight Links	23 ft 5.7 in (7.15 m)	23 ft 4.3 in (7.12 m)
4in1® bucket w/Straight Links	23 ft 3.1 in (7.09 m)	23 ft 1.9 in (7.06 m)
Overall transport width (rear tires)	6 ft 9.8 in (2.07 m)	6 ft 9.8 in (2.07 m)
<b>Height –</b>		
To top of canopy	8 ft 8.8 in (2.66 m)	8 ft 8.8 in (2.66 m)
To top of cab	8 ft 11 in (2.72 m)	8 ft 10.9 in (2.72 m)
To top of exhaust stack	8 ft 7.3 in (2.62 m)	8 ft 6.9 in (2.61 m)
<b>N. Transport</b>	10 ft 9.9 in (3.30 m)	11 ft 0.5 in (3.37 m)
Ground clearance at backhoe frame	15 in (380 mm)	15 in (380 mm)
Angle of departure	15.3°	19°
<b>Front wheel tread –</b>		
11L x 16	67.5 in (1.71 m)	67.5 in (1.71 m)
12 x 16.5	67.7 in (1.72 m)	67.7 in (1.72 m)
<b>Rear wheel tread –</b>		
17.5L x 24	63.1 in (1.60 m)	63.1 in (1.60 m)
19.5L x 24	61.2 in (1.55 m)	61.2 in (1.55 m)
<b>Width over tires</b>		
11L x 16	79.3 in (2.01 m)	79.3 in (2.01 m)
12 x 16.5	81.1 in (2.06 m)	81.1 in (2.06 m)
17.5L x 24	81.7 in (2.07 m)	81.7 in (2.07 m)
19.5L x 24	81.4 in (2.07 m)	81.4 in (2.07 m)
<b>O. Wheelbase –</b>	84 in (2.13 m)	84.5 in (2.15 m)

## CYLINDERS

	Bore Diameter	Rod Diameter	Stroke	Closed Length
<b>Loader</b>				
Lift (2)	3.25 in (82.6 mm)	1.75 in (44.5 mm)	28.86 in (733 mm)	41.81 in (1062 mm)
Dump (2)	3.00 in (76.2 mm)	1.5 in (38.1 mm)	20.33 in (516.5 mm)	30.31 in (769.9 mm)
4 IN 1® clam (2)	3.00 in (76.2 mm)	1.75 in (44.5 mm)	9.08 in (230.6 mm)	19.62 (498.3 mm)
<b>Backhoe</b>				
Boom	4.5 in (114.3 mm)	2.25 in (57.2 mm)	38.22 in (971.5 mm)	52.82 in (1341.6 mm)
Dipperstick	4.25 in (108 mm)	2.25 in (57.2 mm)	25.14 in (628.5 mm)	39.65 in (1007 mm)
Bucket	3.25 in (82.6 mm)	2.25 in (57.2 mm)	35.35 in (897.9 mm)	48.17 in (1223.6 mm)
Extendahoe®	3.00 in (76.2 mm)	1.75 in (44.5 mm)	42.05 in (1068 mm)	56.22 in (1428 mm)
Swing (2)	3.75 in (95.3 mm)	2.0 in (50.8 mm)	11.5 in (292 mm)	24.44 in (620.8 mm)
Stabilizer (2)	4.25 in (108 mm)	2.25 in (57.2 mm)	21.37 in (542.9 mm)	33.87 in (860.2 mm)

## AXLE RATINGS

	Front - 2WD	Rear	Front - 4WD
Maximum static	70,821 lb (32 124 kg)	90,145 lb (40 889 kg)	64,613 lb (29 308 kg)
Dynamic operating	44,261 lb (20 076 kg)	56,200 lb (25 492 kg)	39,328 lb (17 839 kg)
Static operating	17,704 lb (8030 kg)	22,480 lb (10 197 kg)	15,732 lb (7136 kg)
Oscillation (front axle)	22° total - 11% side to side	–	22° total - 11% side to side

## BACKHOE LIFT CAPACITIES

Boom Lift	Standard Backhoe	Extendahoe®	
		Retracted	Extended
	Backhoe Lift Capacity – lb (kg)	Backhoe Lift Capacity – lb (kg)	Backhoe Lift Capacity – lb (kg)
+16 ft (4.87 m)	—	—	1,693 (768)
+14 ft (4.27 m)	2,472 (1121)	2,271 (1030)	1,979 (897)
+12 ft (3.66 m)	2,857 (1296)	2,644 (1199)	2,124 (964)
+10 ft (3.05 m)	2,966 (1345)	2,748 (1246)	2,172 (985)
+8 ft (2.44 m)	2,983 (1353)	2,761 (1252)	2,169 (984)
+6 ft (1.83 m)	2,963 (1344)	2,739 (1242)	2,173 (985)
+4 ft (1.22 m)	2,929 (1329)	2,701 (1225)	2,165 (982)
+2 ft (0.61 m)	2,892 (1312)	2,662 (1207)	2,153 (977)
Ground Level	2,858 (1297)	2,625 (1191)	2,153 (977)
-2 ft (0.61 m)	2,834 (1285)	2,598 (1178)	2,145 (973)
-4 ft (1.22 m)	2,827 (1282)	2,588 (1174)	2,143 (972)
-6 ft (1.83 m)	2,853 (1294)	2,609 (1183)	2,154 (977)
-8 ft (2.44 m)	2,949 (1338)	2,698 (1224)	2,189 (993)
-10 ft (3.05 m)	3,319 (1506)	3,053 (1385)	2,270 (1030)
-12 ft (3.66 m)	—	—	2,429 (1102)
-14 ft (4.27 m)	—	—	3,115 (1413)
<b>Dipper Lift</b>			
+14 ft (4.27 m)	—	—	3,154 (1431)
+12 ft (3.66 m)	4,343 (1970)	4,139 (1877)	2,981 (1352)
+10 ft (3.05 m)	4,027 (1827)	3,826 (1735)	2,823 (1281)
+8 ft (2.44 m)	4,112 (1865)	3,910 (1774)	2,855 (1295)
+6 ft (1.83 m)	4,563 (2070)	4,357 (1976)	3,010 (1365)
+4 ft (1.22 m)	5,398 (2449)	5,177 (2348)	2,948 (1337)
+2 ft (0.61 m)	—	—	3,486 (1581)

## BACKHOE OPERATIONAL DATA

	Standard Backhoe	Extendahoe®	
		Retracted	Extended
<b>Digging depth –</b>			
Maximum	14 ft 9.3 in (4.5 m)	14 ft 9.3 in (4.5 m)	18 ft 2.7 in (5.55 m)
2 ft (610 mm) flat bottom	14 ft 7.8 in (4.46 m)	14 ft 7.8 in (4.46 m)	18 ft 1.4 in (5.52 m)
8 ft (2.44 m) flat bottom	13 ft 7.9 in (4.16 m)	13 ft 7.9 in (4.16 m)	17 ft 4.3 in (5.29 m)
<b>Overall reach from –</b>			
Rear axle centerline	21 ft 11.4 in (6.68 m)	21 ft 11.4 in (6.68 m)	25 ft 3.9 in (7.72 m)
Swing pivot	18 ft 3.5 in (5.57 m)	18 ft 3.5 in (5.57 m)	21 ft 8 in (6.6 m)
Loading height	11 ft 9.4 in (3.59 m)	11 ft 9.4 in (3.59 m)	14 ft 1.3 in (4.30 m)
Loading reach – dipper retracted	6 ft 8.5 in (2.04 m)	6 ft 8.5 in (2.04 m)	9 ft 3.9 in (2.84 m)
Swing arc	180°	180°	180°
<b>Bucket rotation –</b>			
Straight links	175.6°	175.6°	175.6°
Mechanical coupler	198°	198°	198°
<b>Stabilizer spread – centers</b>			
Flip pad	9 ft 5 in (2.87 m)	9 ft 5 in (2.87 m)	9 ft 5 in (2.87 m)
Cast Pad	9 ft 9 in (2.97 m)	9 ft 9 in (2.97 m)	9 ft 9 in (2.97 m)
<b>Digging force –</b>			
Bucket cylinder	11,334 lbf (50 414 N)	11,334 lbf (50 414 N)	11,334 lbf (50 414 N)
Dipper cylinder	6,710 lbf (29 484 N)	6,710 lbf (29 484 N)	4,887 lbf (21 738 N)
<b>Leveling angle</b>			
Flip pad	12.8°	12.8°	12.8°
Cast pad	13.8°	13.8°	13.8°

## STANDARD EQUIPMENT

### OPERATOR'S COMPARTMENT

See page 2

### ENGINE

Case F5C diesel  
Cooled EGR  
Diesel Particulate Filter  
Full flow engine oil filter  
Air cleaner - replaceable dry type with radial seal  
Aspirated air cleaner  
Muffler, non spark arresting  
Radiator with de-aeration bottle  
Antifreeze to -34°F(-37°C)  
Throttles, both hand and foot  
Self adjusting belt tensioner  
Glow plugs cold start  
Inline fuel strainer

### LOADER

See page 2

### BACKHOE

See page 2

## OPTIONAL EQUIPMENT

### OPERATOR'S COMPARTMENT

Auto Ride Control - 4WD models  
Standard Ride Control - 2WD models  
Comfort Steer with momentary latching switch, two speed steering pump and 3rd/4th gear cutout.  
ROPS/FOPS certified protective cab w/rear wipers and floor mat  
Cab Convenience Package containing:  
Pull-down sunvisor  
Window washer, front and rear  
Left-hand storage tray  
Deluxe interior package  
Tilt steering column  
Sound Reduction Package for cab models - levels reduced to 72 dB (A)  
Right-hand threshold storage box  
Viscous fan  
Air-conditioning for cab models  
Mechanical suspension seat with flip-up arm rests, 180° swivel, cloth or vinyl, adjustable seat and weight, backrest angle, lumbar and cushion angle  
Air Ride suspension seat with flip-up arm rests, 180° swivel  
Electric height adjustment, adjustable back rest and lumbar support - cab units cloth, canopy units vinyl  
Pull-down sunvisor for canopy models  
Radio, AM/FM Stereo/WB, MP3 aux input (cab models)  
3 in (75 mm) seat belt for mechanical and air suspension seat



NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

NOTE: All engines meet current EPA emissions requirements.

IMPORTANT: Case Construction Equipment Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Case Construction Equipment Inc. does not warrant the safety or reliability of attachments from other manufacturers.

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Form No. CCE201111580N  
Replaces form no. CCE201105580N

### POWERTRAIN

Front Axle, as selected  
2WD heavy-duty front axle w/ 11L x 16 tires  
4WD heavy-duty mechanically driven front axle w/ 12 x 16.5 tires and drive shaft guard  
Rear Axle  
2/4WD heavy-duty outboard planetary drive w/ 17.5L x 24 tires  
4F-4R Power Shuttle Synchromesh transmission  
Torque converter - 11.8 in (300 mm)  
On-the-Go electric 4WD control  
Electric F/R shuttle control  
Electric Differential lock control w/ push button activation on the loader control lever  
Park brake, spring applied, hydraulic release

### HYDRAULICS

Pump 28.5 gal/min @ 3000 lbf/in<sup>2</sup>  
(107.9 L/min @ 207 bar)  
Heavy-duty hydraulic oil cooler  
7 micron, spin-on oil filter

### ENGINE

Cold Weather Starting Aid - dual 12 volt batteries  
Block Heater

### LOADER

Auxiliary hydraulics for loader-mounted equipment with thumb-operated proportional control  
Hydraulic front quick coupler  
Bolt-on cutting edges  
Loader linkage w/o loader bucket  
Tool portfolio of additional attachments  
Buckets (see page 2)

### BACKHOE

Auxiliary hydraulics with flow from 0 to 36 gal/min (0 to 136 L/min)  
Extendahoe  
Two lever controls (backhoe or Extendahoe)  
Pilot operated control system  
Fingertip proportional electrohydraulic stabilizer controls  
Thumb-operated proportional electrohydraulic Extendahoe® control  
Thumb-operated horn button  
Thumb-operated auxiliary hydraulic control  
Infinitely adjustable towers  
In-cab switchable "excavator to backhoe" control pattern change  
Flip-over stabilizer pads  
Street/Cemetery Pads  
Case mechanical quick coupler

### OTHER

Forward tilt engine hood  
Replaceable, molded front bumpers  
Front/rear tie downs  
Reflective logos  
Lights - Cab and Canopy  
(2) Rear tail/stop  
(2) Front flashers/turn  
(2) Rear flashers/turn  
Cab only  
2 front driving lights (55 w)  
2 front, 2 side (left & right) & 4 rear adjustable halogen work lights (55 w)  
Canopy only  
2 front driving lights (55 w)  
2 side (left & right) & 2 rear adjustable halogen work lights (55 w)

### BACKHOE (continued)

Bucket retrofit kits  
Buckets (see page 2)

### POWERTRAIN

Powershift S-Type transmission, 4F-3R fully synchronized, electronic transmission controller & kick down in loader control lever (2WD or 4WD)  
Heavy-duty outboard planetary drive w/ 19.5L x 24 tires

### HYDRAULICS

Auxiliary backhoe uni-directional hydraulics  
Auxiliary backhoe bi-directional hydraulics  
Hand lever operated for manual controls  
Button operated for pilot controls

### OTHER

11 x 16 10-ply, 12 x 16.5 8-ply or 17.5L x 24 10-ply front tires  
19.5L x 24 10-ply rear tires  
Rotating Beacon  
Special paint  
Canopy lights - Additional 2 front and 2 rear halogen lights (55 w)  
Tool box - bolt on, step mounted  
Lift hooks - export  
Front counterweights - 700 and 1,100 lb (318 and 500 kg)  
Master disconnect switch and remote jump start terminals



[www.casece.com](http://www.casece.com)



All Case construction equipment is biodiesel ready.

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580N • Page 6 of 6

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